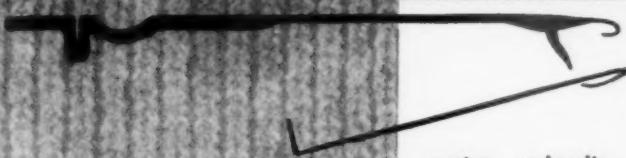


ABSTRACTED

Knitted Outerwear Times



the official publication of the
national knitted outerwear association
386 park avenue south, new york 16, new york
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sweaters • swim suits • infantswear • knit fabrics • polo shirts • gloves • headwear

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Vol. 30

MONDAY, NOVEMBER 27, 1961

No. 49

Cotton Production Reported Higher Than Last Year

WASHINGTON, D. C.—The 1961 cotton crop as of November 1 was an estimated 4.5 million running bales of 100 pounds each, compared with the 1960 crop of about 4.3 million bales, the Economic Research Service, Department of Agriculture, has reported.

Cotton is being produced on more acres at about the same average yield per acre as in 1960.

Acreage harvested for 1961 was estimated at 15,652,000 acres, compared with 15,309,000 acres for 1960. The average yield per acre for 1960 and 1961 is 446 pounds, the lowest for the past four years. The record high of 466 was set in 1958. Except for the past four years, the trend has been up.

Consumption of cotton by mills in the U. S. during the current season was estimated at 8.8 million bales compared with 8.3 million last season. The increase resulted from more economic activity, relatively low inventories of cotton broadwoven goods, some slowdown in imports of textiles and the maintaining during 1961 of the 1960 increase in the rate of exports of textiles.

Man-made fiber consumption is increasing sharply and cutting into the consumption of cotton.

Consumption of extra-long staple cotton during 1960-61 was the largest since 1950-51. Consumption has been increasing steadily each season since 1957-58. The 1960-61 consumption increased by about

seven per cent over 1959-60. At the same time, consumption of other types of cotton declined. It seems highly likely that consumption of extra-long staple cotton in 1961-62 may be around 8,000 bales larger than last year's.

Production of non-cellulosic fibers in the world and the U. S. has been increasing at a faster rate than rayon and acetate. The increase is especially evident when the fibers are converted to a cotton equivalent basis.

In 1950, world production of non-cellulosic fibers in cotton equivalent pounds was only 256.9 million and five per cent of man-made fiber production. By 1960, non-cellulosic fibers increased to 2,631.5 pounds and 25 per cent of production.

Although production in the U. S. has increased steadily, output in other countries has risen more rapidly. Non-cellulosic fibers in foreign countries in 1950 was equivalent to only 49.2 million pounds of cotton and represented less than two per cent of total man-made fiber production abroad.

Foreign production increased to 1,395.2 million pounds in 1960 and non-cellulosic fibers represented over 18 per cent of total production. In 1960, foreign production of non-cellulosic fibers exceeded U. S. production.

The rate of growth in the U. S. production of non-cellulosic man-made fiber has varied widely since the end of World War II. The change in successive years has varied from a decrease of 5.7 per cent in 1947 to an increase of 52.3 per cent in 1950. However, production declined during only two years in the post-war period, 1947 and 1958.

Drive Against Coop Ads Not Slowed By FTC-Macy Case, Says Korzenik

THE dismissal of the Federal Trade Commission's case against Macy's is considered only the first round in this important contest on trade practices, but in no event can it soften the existing prohibition against discriminatory advertising allowances. This was the comment of Sidney S. Korzenik, executive director and counsel of the National Knitted Outerwear Association, in his analysis of the recent decision by the FTC hearing examiner in proceedings against R. H. Macy and Company.

"The Macy case," Mr. Korzenik explained, "did not involve contributions to store catalogs. It was not a proceeding brought under the Robinson-Patman Act. The decision of the FTC hearing examiner—and it is only an initial determination—while it may be disappointing because a contrary conclusion would strengthen the resistance of manufacturers in the ready-to-wear market against improper demands by large buying organizations, will not diminish the force of the legal prohibition. Our opposition to discriminatory contributions for advertising in store catalogs is well grounded in other decisions. It will be continued with undiminished force. It does not depend upon the Macy case for vindication and is not legally related to it."

In explaining the Macy case, Mr. Korzenik pointed out that Macy's did not solicit moneys for advertising by suppliers in any store catalog or any other retailer promotion piece: Macy's asked a group selected out of its many thousands of resources for \$1,000 gifts toward the cost of Macy's year-long celebration consisting of special events, store advertising, promotions—all of an institutional nature and all de-

signed to enhance Macy's own position. Approximately 582 vendors agreed to contribute \$1,000 each, and up to about the time when these proceedings were begun, Macy's had actually collected approximately \$540,000.

The FTC complaint against Macy's, Mr. Korzenik continued, was not based on the prohibition against discriminatory treatment of customers under the Robinson-Patman Act or any participation in or any aiding or abetting of such offense. It was based upon Section 5 of the Federal Trade Commission Act, which prohibits "unfair methods of competition" and which gives the FTC authority to determine whether a trade practice is unfair within the meaning of the law.

The FTC argued that when a buyer with the economic power of Macy's demands gifts, as in this case, its action is oppressive and, therefore, unfair because behind the demand lurks the threat faced by every such resource that refusal may entail loss of business. But the trial examiner cleared Macy's on the grounds that there was no evidence that Macy's actually made any such threat.

Macy's witnesses testified, on the other hand, that those who solicited contributions for the store had been instructed by higher authority to advise

(Continued on Page 31)

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Knitted Outerwear Times

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Synthetic Fiber Developments

Prolene Applications In Knitwear Studied

By CHARLES REICHMAN, Editor

KNITWEAR is one of the end-use areas in which Prolene, Hercules Powder Company's new polypropylene fiber, is undergoing evaluation, it was learned recently on good authority. Although officials at Hercules' New York office declined to comment, market sources indicated that knitwear was high up on the list of end-use applications currently being studied by the company in its laboratories and in the plants of a number of knitwear producers. The latter, although unidentified, are said to be checking out Prolene in the following knitwear product categories:

- Sweaters.
- Knitted sport shirts.
- Knitted yardgoods, including the currently popular double knits.

- High-pile fabric produced via the sliver knitting technique.

In some of these knitwear applications, Prolene is used in spun yarn form and in others in filament yarn, the latter processed into stretch and bulked type yarns via the conventional texturizing systems. Most of the check-outs are with Prolene in combination with other fibers, but it is understood that some evaluations encompass the Hercules polypropylene fiber in 100 per cent form.

The sliver knitted high-pile fabric field is deemed to be one of the most promising of the knitwear areas for Prolene. A sample of high-pile fabric with a 100 per cent Orlon face and 100 per cent Prolene backing was recently seen in the market. As the backing fiber Prolene had replaced Dynel which currently is favored by most sliver knitters as the backing yarn in deep pile cloth because of its high shrinkage. The advantages cited for Prolene in this application are higher rate of shrinkage as compared with Dynel and greater coverage.

Prolene, like all polypropylene fibers, is derived from the polymerization of the monomer propylene. Its development is a direct outcome of work originally done in Italy with isotactic polymers. As such it has a close chemical kinship with polyethylene which is made by polymerizing ethylene, the long chain paraffin monomer. Both the monomers of polypropylene and polyethylene are by-products of petroleum or alcohol cracking.

Under the Textile Fibers Labeling Act, Hercules' Prolene is generally classed as an olefin fiber. Hercules last year requested the Federal Trade Commission to recognize a new generic name for its fiber and suggested as a substitute for "olefin" the term "profelin" as more correctly descriptive of its fiber and as a means of distinguishing it from the different varieties of polyethylene and polypropylene fibers. The F.T.C., however, turned down the Hercules request, pointing out that olefins are "a closely related family of chemicals." The Commission felt that to set up an alternative generic class would have given recognition only to the structural dissimilarities between Prolene and other olefin fibers.

Prolene is currently being produced in two multi-filament deniers—120 and 165 deniers, and three staple deniers—3.0, 6.0, 15.0. The staple fiber is said to be adaptable to processing on all of the conventional spinning systems, while the filament yarns are purportedly subject to modification on the different types of crimping and false twist texturizing processes.

Because of the inherent chemical inertness of polypropylene, Prolene is, of course, difficult to dye and this is its biggest stumbling block as a commercial fiber for knitted outerwear and other apparel. At the moment, Hercules has surmounted the dyeing obstacle by extruding the fiber in various dope-dyed colors. A Prolene color card that has made the rounds of the market includes some 15 solution-dyed pigment shades ranging from pastel-like hues to the darker colors.

Like all polypropylene fiber producers, Hercules, of course, has a crash program aimed at finding ways to dye Prolene via conventional yarn and fabric dyeing methods. Among the approaches that are being tried out

is the use of carriers, or swelling agents, a technique which has proved successful in dyeing Dacron and other polyester fibers. Some work is being done with disperse, azoic, vat ester and sulphur dyes. Although the results of this research may not be commercially practical at the moment, it is felt that they are sufficiently promising to warrant the belief that the dyeing problem may soon be licked.

Despite its dyeing drawbacks, Prolene has a number of properties which make it highly desirable for knitwear. Among these are its extremely low specific gravity, like all polypropylene fibers. The specific gravity of Prolene is 0.91 as compared to 1.5 for Orlon and 4.5 for nylon.

Because of its low density, greater coverage can be obtained with Prolene than with fibers in the acrylic, polyamide, or polyester class. A comparison made by Hercules researchers of the specific volume of Prolene with other fibers showed that it had a 26 per cent advantage over nylon and various acrylics and a 54 per cent edge over Dacron.

The difficulty of dyeing Prolene can be taken advantage of when the fiber is combined with another synthetic or with a natural fiber. In such combinations, contrast or tweedy effect yarns can be produced because dyestuffs that would dye other fibers would generally not color Prolene.

Of significance too from the knit goods standpoint is the fact that Prolene in staple fiber form can be heat set, making possible the production of high-bulk yarns. This property of the fiber also means that fabric knitted of it can be stabilized against further shrinkage providing the temperature at which the heat setting took place is not exceeded in subsequent laundering or drying operations.

Another property of the fiber which may stand it in good stead in the knitwear field is its strength. Prolene's robustness is the same both wet and dry since the fiber is unaffected by water. The toughness of the fiber

(Continued on Page 5)

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makes it especially desirable in blends with weaker fibers. In combination with wool, for example, a small percentage of Prolene in a blend will result in a proportionate increase in the strength of the yarn bundle in ratio to the quantity of Prolene incorporated.

Although there are roughly 10 companies in this country known to be engaged in the polypropylene business on either a pilot plant or commercial basis, only four companies, in addition to Hercules, are reportedly extruding polypropylene fiber in either staple or filament yarn form. These companies are Beaunit Mills, Inc., G. F. Chemicals Co., Reeves Bros. Inc. and U. S. Rubber Co. The

PROPERTIES OF PROLENE POLYPROPYLENE FIBER

Tenacity	5½ to 7 grams per denier
Density	0.09
Melting Point	332 degrees F.
Softening Point	311 degrees F.
Moisture Regain	0.15

latter is marketing its polypropylene fibers under the Royalene trade mark along with a group of polyethylene fibers. The fiber is designed largely for footwear and industrial end-uses.

The G. F. Chemicals Co.'s product is called Gerfil. The company's immediate production plans are for the manufacture of fine denier multi-filament yarns, some of which will be texturized at the spinneret, in

much the same way as Cumulofit nylon yarns are now being produced for carpeting by The Chemstrand Corporation.

Other U. S. companies identified with polypropylene either in the production of resin, packaging films, heavy denier filament yarns for industrial uses, etc., include Humble Oil and Refining Co., Shell Chemical Co., Avisun Corporation, Eastman Chemical Products, Daw-

barn Bros., Novamont Corporation, Allied Chemicals Corporation, Union Carbide Chemicals Co. and W. R. Grace & Co.

In addition to the American companies, a number of European chemical fiber producers are also in the polypropylene fiber business. Among the best known of these is Montecatini, the Italian chemical combine in whose laboratories isotactic polypropylene was first developed. Montecatini is marketing its polypropylene fiber under the Merakalon trade mark. In England, two companies are turning out polypropylene fiber—Courtaulds, Ltd., which has designated its product Courlene, and Imperial Chemical Industries, whose product is called Ultron.

Case History

Fred Bailey Mill Prospering — It's All In The Family

By EDWIN K. LANGILLE

NEEDHAM, Mass.—Fred Bailey Hosiery Mill is typical of the small prospering family-type knitting companies manufacturing high grade sweaters in a limited number of styles which have been appearing in this area within the last decade. Despite its name, 95 per cent of the production of this firm is in a shetland-type sweater for women and children, hand knit, fashioned and finished.

Fred Bailey, proprietor, is the son of the co-founder of Benjamin Moseley Company, who acquired ownership of that mill in 1918, four years after its founding. A year after the death of Frederick Bailey, Sr. in 1947, sisters holding a controlling interest, sold the company to a New York City group, but Fred Bailey, Jr., remained as general manager until 1956 when he established the mill now bearing his name.

The operation grew out of a hobby. While still an executive of the Moseley Company, Mr. Bailey spent his evenings turning out socks on three automatic Stibbe hosiery machines but in June of the organization's first year, sweater production was started. Gross sales that year were only \$6,000 and profits were funneled back into the business. It is estimated that 1961 sales will amount to \$100,000 and production now averages 500 sweaters per week.

Like many small mills, the firm has no labor problem. Of the 13 employees, including Mr. Bailey himself, the work force includes four sons, a mar-

lem. Selling to high grade specialty shops scattered from Maine to Florida and throughout the midwest, the sales force consists of two men, one covering Ohio, Kentucky, Indiana, Illinois and Wisconsin and the other New England to Pennsylvania.

There are also three other part-time workers who stitch on crew necks in their homes. Mr. Bailey, himself, who operates two of the automatic flat beds through the day, spends four hours every night laundering the day's production in two automatic washers in his own home.

Nor is distribution a prob-

lem. Selling to high grade specialty shops scattered from Maine to Florida and throughout the midwest, the sales force consists of two men, one covering Ohio, Kentucky, Indiana, Illinois and Wisconsin and the other New England to Pennsylvania.

Since the firm makes the same four styles year in and year out, inventory is not much of a prob-

lem. Men's sweaters are made to order. The four styles stocked in regular sizes for women and children consist of a pullover and a cardigan with panels of twisted cable down either side of the front and back, and also a pullover and cardigan of plain coarse gauge jersey knit or baby shakers. All sweaters are made with crew necks. Cardigans are all trimmed down the front with ribbon binding of solid matching color or any one of fifteen or twenty plaids to match skirts. Binding is on the front only. Front and back binding is only made up on order.

Buying and raw stock storage is also simplified by uniformity. All yarn is 2/11's of a blend of Scotch, Australian and South American wool of about 58/64 grade supplied in oil by Ames Textile and shipped to Dyecraftsmen, Inc. Dyed yarn is returned in bulk and wound into cones by the mill.

Sweaters are offered in twenty-six different shades including brown, blue, green and gray heather mixtures. Production is about 50-50 heathers and solids. On an average two colors are added and two are dropped each year. This year a brick and a new tone of blue were added and pink was dropped but it is the practice to notify customers before dropping a color and this often results in a shade being retained by demand.

(Continued on Page 29)



Fred Bailey, son of the co-founder of Benjamin Moseley Company and proprietor of the Fred Bailey Hosiery Mill, exhibits Shetland-type sweaters, the new firm's major product.

"Survival of the fittest" holds true in fashion as it does in Nature. WOOL has proved its fitness through the centuries, and now rises to a new peak of popularity. This amazing WOOL revival dramatizes the strength of a solid reputation for reliable performance. WOOL is *true-blue*. It has that ingenious ability to inject a constant stream of excitement into knitwear fashion, via new colors, textures and patterns. The double-knits, the fine gauge knits, the bulkies, the brushed, all come alive and thrive magnificently, in wonderful wool.

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Manchester Knitting Machinery Show

Review Of Tricot And Raschel Warp Knitting Equipment

By A. REISFIELD
 Director, Research and Development
 Gehring Textiles, Inc.

FROM the warp knitters' standpoint the Manchester show was perhaps the most comprehensive and interesting of the recent exhibitions. Both improved and radically novel equipment was shown and operated at much faster rates than thought practical or even possible. The tricot branch this time appeared to have received far more attention from the machine builders than the Raschel section, as evidenced by the number of new tricot units exhibited. There was scarcely any significant innovation observable in the Raschel area.

Since the machine builders invariably like to display their equipment running popular merchandise, one can assume that fabrics knit at exhibitions are a true indication of what the trade wants. It was plain to see that shirting and raised loop cloths were most in demand on the European market, as F.N.F., Liba and Mayer put the machines through their paces on these constructions. A number of shirts, blouses, house coats and other garments in various color effects and weights were on display at the exhibitors' booths. Raschel equipment, too, reflecting the current European trend, was running on such items as multi-bar lace, patterned marquisette curtains and fish netting.

Tricot Developments—There were four exhibitors of tricot equipment — Liba, Mayer and F.N.F. A Kettenraschel which must really be classed as tricot was also shown by Barfuss.

LIBA displayed the following models from its Excentral line:

1. A 170 inch, 2-bar, 28 gauge unit running 40 denier unthrown nylon at 900 courses per minute. It operated with just a negligible amount of noise and vibration. The fabric knit was of 1-0, 3-4 type raised loop, 7.5 inch in quality. This machine was virtually identical to the one exhibited at the Atlantic City exposition.

A noteworthy feature of this machine is its take-up motion. The spacing and location of the take-up rolls enable simultaneous scanning of two large cloth portions which is an advantage considering that, under circumstances (very long qualities), the cloth is fabricated at a speed

of one yard per minute. The take-up roll is mounted in such a way as to allow batching of several hundred yards of cloth. This is useful when processing the goods on a continuous basis.

An objectionable characteristic of an otherwise sound machine is the disposition of the needle and guide bars at a rather low level and too far forward which might pose problems to tall knitters.

Installed on the 2-bar machine was the Dextomat fault scanner. This device works on the photo electric principle whereby the machine is stopped once the light reflectance value of the fabric is altered by a hole, run or other damage. The scanner consists of traversing carriage riding on a track mounted above the needle bar. The carriage is fitted with a twin bulb inspection head scanning the cloth at its point of origin. An unattractive part of this mechanism is the wiring of the carriage which is coiled and uncoiled while riding on an overhead wire surmounting the machine superstructure. Selvage uncurlers and spreaders are provided at the extremities of the cloth in order to permit full width scanning. It was claimed that the Dextomat was suitable for scanning of both plain and marquisette type goods.

2. 84 inch, 2-bar, 28 gauge unit running at 1120 courses per minute on 40 denier unthrown nylon jersey, 7.5 inch quality. Despite such high knitting speed, the level of vibration and noise was quite low. The pattern wheels of the machine were made of Novotex plastic material in order to reduce the noise through cushion-

ing the shock of rapid guide bar movement.

3. 84 inch, 3-bar, 28 gauge unit running at 725 courses per minute on 40 denier nylon shirting fabric. The middle bar threaded with spun-dyed nylon was executing at one point of the pattern repeat a six needle lap. Considering the length of this lap and relative smoothness of machine operation, the speed of 725 courses per minute was quite a remarkable performance.

The Excentral machines are now available with tricked needle bars for individual needle mounting. The tricks are in detachable sections which can be changed should a trick break. Despite the fact that tricked needle bars were introduced more than 10 years ago, knitters still favor the leaded needle mounting on account of its better gauge stability and ease of pliering.

MAYER — Mayer displayed three tricot machines of the well-known Super Rapid series:

1. 168 inch, 2-bar, 28 gauge Model K11 running 30 denier nylon jersey at 900 courses per minute, 9.5 inch quality. The operation of the machine was marred by considerable vibration and whip in the take-up rolls which might have been due to improper mounting of the machine or other factors.

Model K11 features a number of modifications and refinements over the previous Super Raps. The let-off mechanism is now controlled from a twin disc signal roll riding on the periphery of the warp. Rotation of the signal roll feeds indication of the warp speed to the let-off governing mechanism to take corrective action (speed up or slow down) if for some reason the runner drifted off its predetermined value. Adjustment in the runner length may be effected collectively for both beams from a PIV drive. Individual beam adjustment is carried out by fitting a suitable change gear in the drive of op-

posed cone device which turns the beam via bevel gears shafting and worm wheel/pinion arrangement. The signal roll transmits its indications through the medium of a rubber band driving a small cone which, in turn, operates the standard for Mayer pawl and ratchet governing device. Fine adjustment in the runner length may be carried out by repositioning of the band on the periphery of the small cone with the aid of jockey pulley. The latter is constrained on a screw shaft which when turned (manually) shifts the pulley with its band. The entire signal roll assembly and band drive is fastened to a pivoted bracket to be swung out of the way for beam loading.

Just what will happen if lubricant should get on the band or highly polished surface of the cone or in case of band breakage, may perhaps be interesting to ponder. Band-operated devices, especially of the older types (driven through direct contact with the beam), were never entirely satisfactory, to say the least.

The pattern wheels are driven from a camshaft through a rather complex train of bevel gears, shafts, two universal joints and worm/pinion set. All these parts, especially universal joints, are liable to develop wear and give rise to troublesome backlash which adversely affects timing of the guide bar shog.

The guide bar suspension mechanism has been completely redesigned. The hangers are now L-shaped and carry ball slides in which guide bars move. This is almost an identical arrangement to one introduced by Liba last year. One may debate the need to use ball slides for the relatively slow (in terms of feet per second) guide bar shog, the main advantage, however, is the much smaller space taken up by the hanger and greatly reduced interference with the warp ends. Trapping of ends behind the hangers and poor accessibility to them has been a long standing complaint of the knitters. The guide bars are kept in contact with the push-rods by means of springs joined

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This is the final in a six-part series of articles reporting on equipment developments demonstrated at 1961 International Knitting Machinery and Accessories Exhibition held October 11-21 at Belle Vue in Manchester, England.

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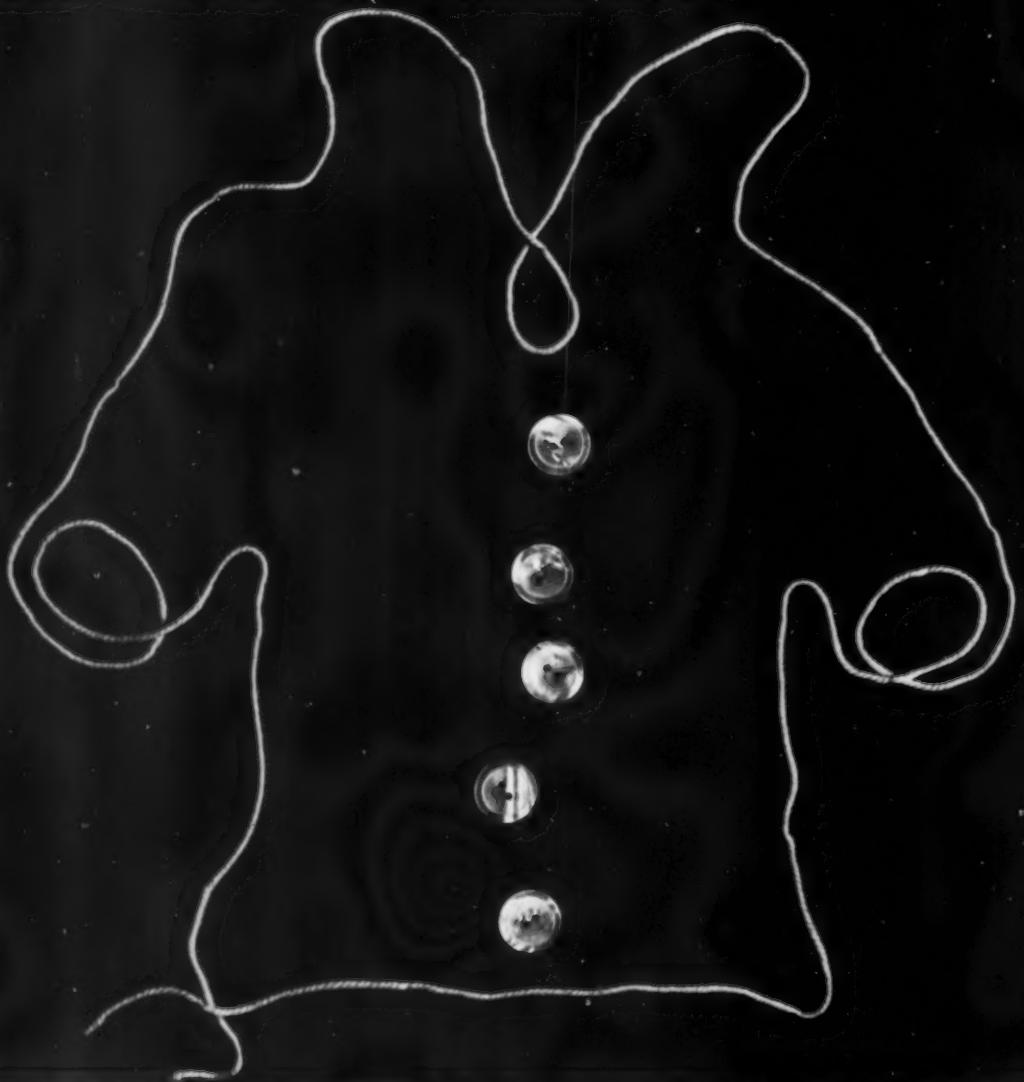
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with roller chain working around a sprocket. This is a simple and neat mechanism used for many years on the pre-war Saupe machines. The disadvantage of this system, however, lies in the danger of spring or chain failure in which case both guide bars will be left without control and rake the needles with dire consequences. With individual spring control as currently utilized on other machines, only one guide bar can get out of control (the danger of simultaneous spring failure is remote) and do less damage.

Mayer pointed out the new crankcase ventilating system as a significant improvement. While this is a good talking point, the technical advantages accrued by keeping the oil temperature a few degrees less are slight. It is more important to maintain a steady oil and hence machine temperature than just keep it a few degrees down.

A minor but advantageous feature found on the machine was the push button system for stopping the motor drive. Instead of reading and fumbling with the three buttons for start, stop and jog, the knitter merely has to strike with his palm a wide protruding knob on each of the three push button stations. The machine is equipped with rheostatically controlled 6 KW, 1400 rpm. motor. Rheostatic rpm adjustment is definitely superior to the conventional variable speed pulley drive, limited in range and troublesome in operation.

2. 84 inch, 2-bar, 28 gauge Super Rapid K11. This machine ran 40 denier unthrown nylon at 1,100 courses per minute. The fabric knit was loop raised velvet tricot of 1-0, 3-4 type light and in quality. As with 168 inch machine, the 84 inch model appeared to be laboring at this speed.

3. 84 inch, 3-bar, 28 gauge Super Rapid K111. It ran 40 denier shirting fabric at an impressive 750 courses per minute. The needle bar motion has been modified to increase the clearance between the needles and guides at the instance of shog. Because of complexity of the needle movement, it has been found necessary to develop it from contour cams. All other motions are generated from eccentrics.

F.N.F.—F.N.F. showed two machines which attracted considerable attention with their novel design and appearance. The Superline K14 range of machines embodies entirely new mechanical elements developed to meet the requirements of fast multi-bar operation.

The double crankshaft system originally pioneered by F.N.F. has been retained. All machine motions are derived from it and transmitted to knitting elements bars by suitable linkage and plungers. The needle bar is inclined at almost 45° with the guide bars assuming a similar position. The guide bar swing is adjustable by repositioning of pins in the locating holes of linkage system responsible for imparting the bars the swing motion. Adjustment of the sinker bar is affected by turning a single micrometrically set screw.

The compound tongue needle around which the machine is designed has been greatly strengthened to cope with the strains of multi-bar knitting. The manufacturers claim the new needle has 12 times capacity of the previous type.

The machine can accommodate up to six fully leaded guide bars controlled from six track chain drum. Up to six positively driven beams may be fitted on the machine. The let-off motion has been redesigned to combine advantages of mechanical and electrical control. The let-off action is governed from yarn pulley driven by a single thread. The later is taken off a pirl, passed around the pulley, wrapped a few turns on the beam and run into the selvedge. This end being wrapped on the beam advances at the same linear speed as the warp and thus monitors the runner length to the let off. A dropper stop motion is fitted on the thread to stop the machine should it break and consequent runner drifting occur. This is a much simpler and more practical arrangement than a system of friction rolls and rubber bands found on other machines.

An interesting attachment installed on the exhibition machine was a dropper stop motion applied to every end of the warp. Instead of threading each dropper as previously done on similar type stop motions, the

ends are merely sleyed carefully, one per dent, and then trapped in the droppers by shifting them collectively.

The warp sheet paths are straight and short which facilitates work with unthrown materials. The disposition of take-up rolls affords an easy access to the guide bars.

The two F.N.F. machines included a 168 inch unit knitting a 2-bar unthrown nylon jersey at 920 courses per minute and an 84 inch unit knitting a 4-bar fancy nylon shirting fabric also at 920 courses per minute. This is a phenomenal spirit of F.N.F. designers. Whether it will be possible to maintain such speed under mill conditions remains, however, to be seen. A simple runner checking device based on multi-color thread printing was fitted on the 84 inch machine.

HOBLEY—Hobley displayed the Albion 2-bar, 84 inch tricot machine equipped with the Swanwarp patterning unit. It operates on the principle of lifting certain selected groups of ends which, being under greater tension, produce tight loops. A pattern chain system with protruding studs can be set to develop any desired design within a large pattern area with complete freedom. The machine runs well at 550 courses per minute on a 40 denier nylon jersey ground. The builders claimed it could reach 650 courses per minute under mill conditions. The Albion machine is of simple, sturdy construction and operated by conventional cam/countercam system.

The beams are electrically driven by a mechanism steered from warp tension balance. Electromagnetic clutches regulate the speed of beam rotation in accordance with the warp sheet tension to maintain a uniform runner. No extra threads, rubber bands or friction rolls are necessary. Because of tension principle of let-off control, the beam rotation is rather jerky, which however, for small spool diameter and medium knitting speeds is of marginal consequence.

Barfuss exhibited the well known KR 55 chain or Kettenraschel machine 120 inches wide and 16 gauge. It has a complement of four guide bars, two cut and one plain presser bar and a tucking attachment

for creating knop and boucle effects.

The exhibition machine was knitting a 2-bar Atlas type pattern in wool.

An interesting circular warp knitting machine was shown at the Stibbe stand. It was their model S/B-18 knitting a two-bar type tubular mesh cloth for gas mantles and petroleum burners. Although similar articles have been produced on 8-bar Raschel machines, there is little likelihood that the circular warp knitters like S/B 18, being extremely simple and cheap in operation, will be displaced by Raschels.

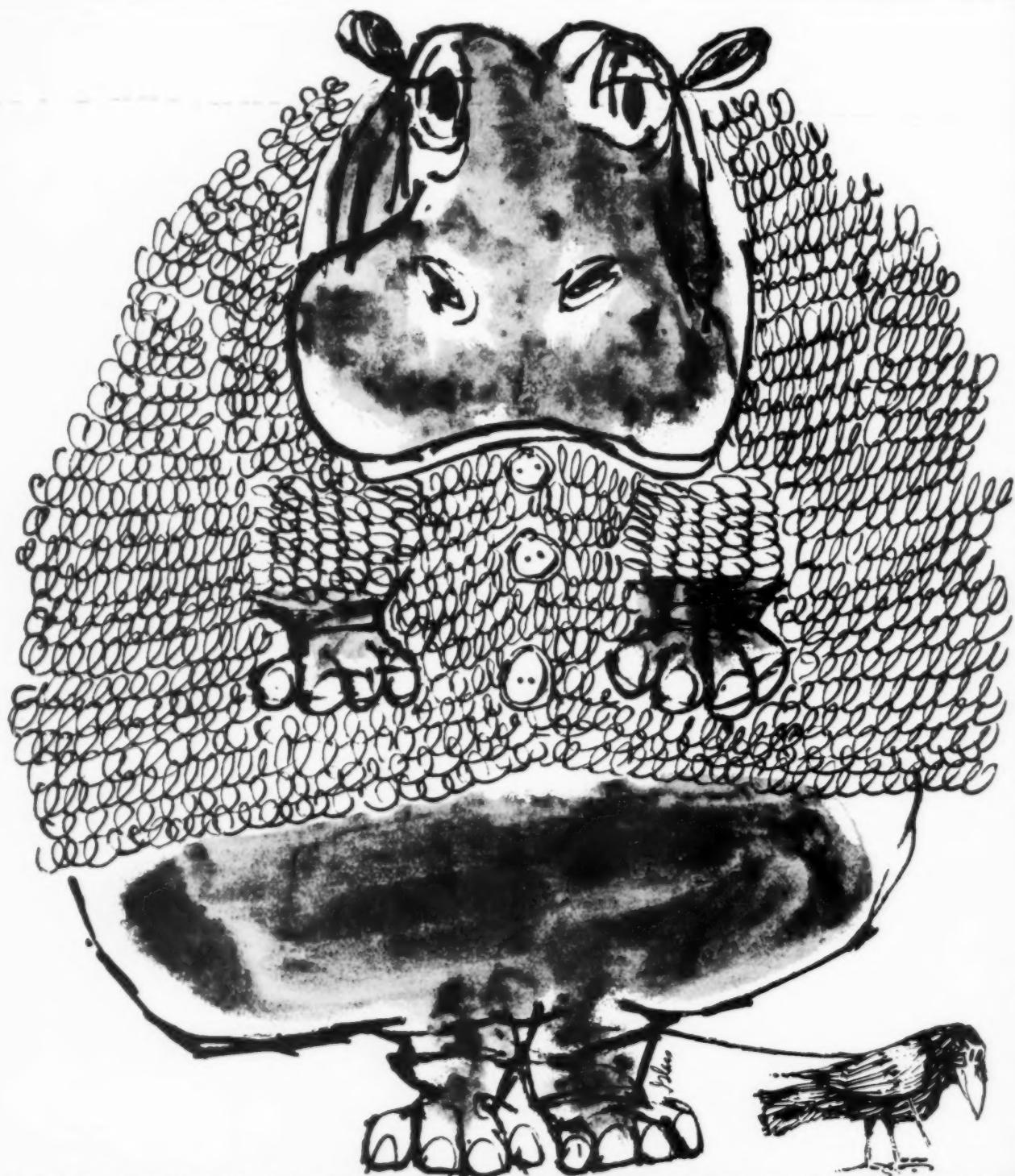
The machine, four inches in diameter has 120 needles vertically mounted around the cylinder and collectively reciprocated by a cam. The warp in form of a single beam supplies yarn to two thread guide rings shogged in opposite directions by a system of cams and levers as to produce yarn crossings necessary for loop formation. Special points intercept the yarn crossings and hold them down in position while the needles convert them into loops. The machines run at 220/240 strokes per minute on 250 denier rayon. At this rate it was producing approximately 60 yards of tubing per hour.

Raschel Equipment—From the Raschel knitter's point of view, the show was rather disappointing, at least as far as innovations in Raschel machinery were concerned. With one or two exceptions, the machines discussed below were already well known to knitters:

1. A 24 bar, 36 gauge lace machine, 100 inches wide. It ran at about 300 courses per minute, knitting an intricate lace pattern of tremendous repeat. The chain with all the pulleys, idlers and scaffolding was quite a sight. In view of the relatively low speed possible with the 24 bar complement, the cam/countercam drive has been retained despite installation of eccentric mechanism on most of the Mayer equipment.

Only minor technical improvements were evident on the machine. Indeed, there is little point to improve the machine until designers learn what to do with the designing potential on 24 bars. So far, they

(Continued on Page 33)



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Men's & Boys'

Bright, Cool, Crisp Colors Spark Jantzen's Line

By VIRGINIA CORNING

PORLAND, Ore.—Bright, clear, crisp colors are "the look" of 1962 in the new Jantzen summer line of sun clothes and beach clothes for men and boys. As an example, Herb Zell, director of merchandising for the division, pointed out brilliant green as a hot color for the coming season and cited also the combination of blue with green.

Knit tops are in wide and colorful variety and are mainly in 100 per cent cotton.

One of the newer concepts in knitwear is the use of fine cotton double knit in a fully tailored walker, styled with a flat front, belt loops, side seam pockets and two cut-in back pockets. The walkers are unlined, in order to emphasize their knitted look. They will retail at \$13.95.

In Ming yellow, light olive, bay blue (a dark shade) brown olive and black, this style plays up its knitted fabric with a wise-cracking name, Knit Wit. A terrific movement toward double knit is now in progress, Mr. Zell says.

The cotton knit array also includes several knit cardigans. One of these is a horizontal fisherman stripe in honeycomb knit, with two lower patch pockets. The notched collar is in solid color. There are two color combinations, each adapted to many other garments in the line.

Another jacket is a boucle knit with metal buttons.

There are several 1962 innovations in knit shirts. The Sun Duster shirt does in knit what other manufacturers have recently done in wovens—the popular pointed tail or poncho shirt style. The Jantzen version has a V-neck, three-quarter-length sleeves, and is of bird's eye knit in 100 per cent cotton.

A more elaborate interpretation of the poncho has its front divided diagonally into four giant diamond sections for a four-color harlequin effect. Italian collar and split placket are in solid color. The combinations are lemon and mallard blue, dark olive and hot orange, pottery blue and red—each of these combinations completed by black and white to make up the four colors of the garment.

Narrow four-color stripes provide a Hawaiian Surfrider poncho design, with boat neck and a sleeve pocket. The latter item,

a patch pocket attached to the outer side of the upper sleeve, appears frequently in the line.

A repeat from last year is the shirt tail boatneck in a broad vertical striping of three colors, plus white—selling at five dollars. Another shirt tail style, with sleeve pocket, is in a two-color stripe.

Other knit shirts have a U-shaped bottom—an inverted U, with the hem curving downward at the sides.

The 10-Pin bowling shirt, in Venturi bird's eye cotton knit, has a longer shirt tail at the back. Sides are vented. This shirt is also distinctive for its action shoulder, with ribbing.

Jantzen's men's division has its own incarnation of The Thing—a cap-sleeved shirt, riotous with wide stripes of many colors, and long enough to look as though it had no trunks under it.

The cap sleeve is also used in styles with more serious intent. It is considered an important look.

One of the "big looks" anticipated for 1962—and one which is pointed out as currently hot in women's apparel—is the use of stretch terry. Jantzen's Terryon knit shirt, of 60 per

cent cotton and 40 per cent nylon, has a contrast rib V-neck, rib popover band, and long sleeves with rib cuffs. Colors are striking—hot orange, Ming yellow or pottery blue, each with white trim; or mallard blue trim on white.

A slight movement toward the crew neck is acknowledged by the presence of some knit shirts in this styling. The "crew scoop neck"—a little lower than the conventional crew—is the newest version.

A variation of the classic 'V' is a shaped V-neck, with the neckline swerving outward toward the shoulder, beginning just above the point of the V.

In a bird's eye knit shirt, the convertible fashion collar is used with a Y-shaped two-button placket, both done in contrast color. The fashion collar appears frequently in the line.

Fabrics used for shirts include many cotton jerseys, bird's eye (in all cotton or cotton-and-acetate), a baby cable, mesh knit, crepe knit, honeycomb knit, knit terry and boucle knit.

Stronger and more varied than ever for 1962 is Jantzen's always-popular Ken Venturi program, an outgrowth and expansion of the Ken Venturi golf shirt.

Slacks under that name—introduced earlier this year as a part of the Jantzen fall line—will receive a strong summer send-off in two woven materials

—the Flaxel slack (Corval rayon with 30 per cent imported flax) and the Daco slack, in 65-30 Dacron-cotton combination.

They will be available in a tremendous range of colors—including red, brass, and lemon in the Flaxel, as well as the more reserved neutrals ranging from blues and dark olive to sand and black. Daco colors will include Inca gold, stone green, Grecian blue—as well as the more neutral tones. Color-coordinated with the slacks, needless to say, are the Ken Venturi shirts.

Added to the familiar bird's eye shirt with fashion collar and chest emblem, there's a new version, only slightly more expensive, which has one pocket on the chest. The Venturi emblem is on the pocket, in this style. Both have the long back tail, which is used also in the bowling shirt.

The "Ken Venturi" cardigan sweater in wool and alpaca, a part of this fall's line, is being updated for spring selling by the addition of spring colors—bright red, hot yellow, warm green, magenta, orange, a bright blue. The cardigan retails at \$18.95. The striped Venturi cardigan, too, which has been so well received, will also be included in the spring selling.

Jantzen's 1962 summerwear line for boys duplicates style features of the men's line in many details. Among them are the inverted U shirt bottom; the long, rounded shirt tail hem, and the pointed poncho bottom.

The poncho style comes in many versions—varied stripes and solids—in cotton jersey, bird's eye knit is sold as a random assortment of broad diagonal stripe patterns and triangular block patterns—all emphasizing the bias line suggested by the poncho shape, and presented in an assortment of color schemes.

There are many three-quarter sleeves—particularly in these more unusual stylings.

Boatnecks and a widened crew neckline appear rather frequently. There are also rib V-necks, Italian collars, placket collars, and a good number of fashion collars—used particularly with the more classic knit shirt styles.



Don Kennedy, vice president and general manager of Jantzen, Inc., talks business with Louis Glazer, president of Sun Clothes, Inc., Philadelphia, who has manufactured play clothes for Jantzen for more than 20 years.



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Men's & Boys'**Opening Day Registration Sets Record
In Illinois Apparel Club Showing**

CHICAGO, Ill. — The November 5-8 Holiday and Spring Market drew record breaking throngs of buyers to Chicago. The attraction: shifting of the Illinois Men's and Boy's Apparel Club trade showing to a new location—the Lake Tower Motel. Something new was added, and effectively ballyhooed to the trade. It obviously got results.

Dropping the Palmer House hotel location in favor of the fourth and fifth floors of the new Lake Tower Motel boosted the IMBAC show attendance. Likewise, buyer registrations at the Merchandise Mart's 8th floor, where the Men's and Boy's Wear Club displayed their wares, also showed a spirited climb.

According to the Merchandise Mart's front office, the Sunday opening day registrations hit the highest total in many years.

IMBAC spokesmen at the lake front market, claimed that more than 900 buyers signed the roster at the Lake Tower Motel during the Sunday opener. This figure, they added, exceeded by far any opening day mark set at the previous Palmer House shows.

Traffic for the remainder of the show at both the Mart and the Lake Tower Motel, after the opening day crowds vanished was labeled "steady".

Opening day registrations at the market were further enhanced by free Greyhound bus round trip transportation to the Merchandise Mart for buyers from the South Bend, Ind., Peoria, Ill., and Milwaukee, Wis. areas. Buyers found it hard to resist the Mart's offer of bus transportation, free of cost as well as free of parking and driving tensions.

The general tenor of the market was one of optimism. Buy-

ers reported that their fall volume has been slightly under expectations to date. They blamed the slackness to the mild fall climate the Midwest is experiencing this year. Shelf stocks, however, are in a healthy state and the first wintry blast is eagerly awaited.

Demands were heavy for immediate shipments of sweater goods. Purchases for spring were light. Most buyers said they were waiting for the forthcoming January show to place their spring orders.

Dealer comments at the market revealed confidence that the holiday season ahead bears excellent promise. Employment statistics all through the Midwest make more pleasant reading now than they have for many months. The recall of about 10,000 men to active army duty with the Red Arrow 32nd Division will place a strain on many Wisconsin communities, however. The impact of draining off this large number of young men, including many heads of families, will not be fully felt for a couple of months.

Sweaters have continued to retain a prominent niche in re-

tail merchandising plans. Knit shirts and sweaters are exhibited in a greater number of display rooms at each succeeding trade show here, both as primary and auxiliary lines.

At the Lake Tower Motel, most sales reps queried agreed that adopting the new show location was a wise move for the IMBAC members. One complaint, however, was commonly heard: the rooms are smaller than those at the Palmer House. On the jam packed Sunday opener, sample rooms became so crowded that doing business was close to impossible. Too many customers at one time is as bad as none at all, claimed one veteran IMBAC exhibitor.

Dealers were scouting the IMBAC show at the Lake Tower mainly for novelty sweaters for fill-in needs, according to Lou Metch, Milwaukee Knit Products. His and hers sweater sets were strong sellers. Crew necks and brushed wools also accounted for a lot of business. Cadet collar cardigans with zipper fronts moved at a good pace, as did lambswool and mo-

(Continued on Page 15)

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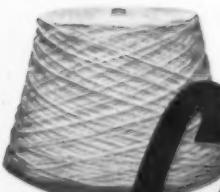
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hair blend pullovers in bright colors.

Action sleeve knit shirts in bright colors were on Milwaukee Knit Products' list of best sellers at this market. Also big were poncho knit shirts in bright vertical stripe patterns.

Some action was also noted in swimwear, said Lou Metch. Buyers showed interest in boucle knit tanker model swim trunks. Popular colors were black and orange.

Ken Schuler, Lamb Knit Goods Co., said that the "hot shades were not doing so hot" at this show. Most popular sweater shades in his line were the blues and Ivy greens. Top numbers were argyle his-hers pullover and cardigan sets in lamb's wool and mohair blends.

Orlon Sayelle fiber, according to Gifford Tuttle, Himalaya Sportogs, was a very important factor at the show. He predicts that Sayelle is destined to continue gaining strength in the sweater field in the months ahead. Ban-Lon, stated Tuttle, is still selling well, but not at the breakneck pace of a year ago. Attention was sharply focused on the Himalaya offerings of wool blend cardigans.

Hot colors were impressive features in the knit shirt numbers, added Gifford Tuttle. "Buyers are only asking for colors," he said. "They don't care too much about what the shirts are made of—the interest is primarily in colors."

The Coronet Casuals space was one of the eye-catchingest spots at the Lake Towers Motel IMAAC show. A black backdrop spotlighted the firm's collection of high styled, bright hued cotton knit shirts and cut and sewn jacket shirts. Dealers shopping this space couldn't help but pick up some solid promotional pointers.

A resurgence of interest in the Italian collar stylings in knit shirts was noted by Larry Ashinoff, in the Coronet Casuals space. Buyers liked the open look collar treatments. Poncho bottom knit shirts were big for the teen-age trade.

Sol Carnow, Vargo Knits, labeled this a very good show. Ban-Lon shirt numbers featuring simple pleated chest pockets were outstanding. Also earning keen buyer attention were Vargo's knit cardigan sweaters with fly fronts.

Turbo-dyed brushed Orlon pullovers and hi-V's in white and blue played a key role in the Drummond Knitwear exhibit, claimed Chuck Ager. His customers also showed a strong preference for double breasted cardigans. Demand was very strong for alpaca type sweaters.

In general, concluded Chuck Ager, the dealers were scouting for lighter weight goods for holiday merchandising.

Jim Jersild, Jersild Knitting Mills, reported that he had the sold out sign up on his attractive line of all wool ski sweaters. He was taking some orders, however, for coat sweaters, and said market action was fairly strong.

Irving Kaplan, Rob Scot Knitting Mills, was writing a lot of orders for immediate deliveries. Most of the orders were for wool brushed jacquards and cardigans. Whites, blacks, reds and olives were his best selling colors. Action on the hot shades was very limited.

Merchandise Mart Memos:

It was mostly current fill-ins at the Pine State Knitwear Co. sample room, according to Robert Zimmerman. Dealers were cautious about making commitments for spring sweaters, and knit shirts. Strong items included vertical striped mandarin collar pullovers. Coat sweaters were moving well. Best selling colors were black, white and blue. The tiger shades were meeting a fair reception.

Ninety per cent of his orders were for cardigans, noted Bob Goldie, New York Knitting Mills. The hottest number in the line was a cardigan which featured diamond intarsia patterning. It sold best in black and in white. The spring line was not actually being unveiled at this show, according to Bob Goldie. "It's fill-ins," he said.

The growing popularity of cardigans was in evidence in the Sportswear by Revere space. According to Martin Zeiger, demand was a little heavier for button fronts than for zippers. Light oxford, charcoal and beiges are expected to be very salesworthy this winter. Fancier colors were moving more readily in the pullover models, said Zeiger.

Revere's ski sweaters proved popular with buyers making the rounds at the Merchandise Mart.

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Knitwear Ideas

New Jacquards Transcend Previous Styles And Patterns



1. A black turtleneck yoke stands in contrast to the bold snowflake pattern on an all wool pullover.

2. Several colors are incorporated in a small and intricate Scandinavian pattern used to design this V-neck pullover.

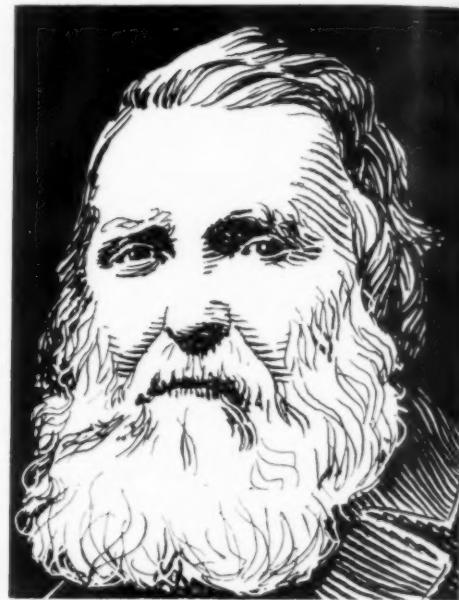
3. Black, white and green combine in a bold Navajo design on a casual slip-on. Plain black knit is used for collar and side triangular inserts.

4. A small, intricate design is placed within multi-color stripes on a crew-neck pullover. Black outlines neckline and hem.

5. Raglan sleeve seaming enables an unusual jacquard design to extend across the chest onto the sleeves of a straight crew neck slip-on.

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Knitwear Ideas

New And Classic Jacquards Never Cease To Fascinate



1. Snow white collar stands up and away from a multi-color jacquard mated with a matching hat.

2. Solid rib stitch on collar, placket and hem contrasts with the multi-color Norwegian design of the sweater body.

3. Bold, geometric forms stand out from a white ground in a bulky wool slip-on with striped and ottoman ribbed cowl collar.

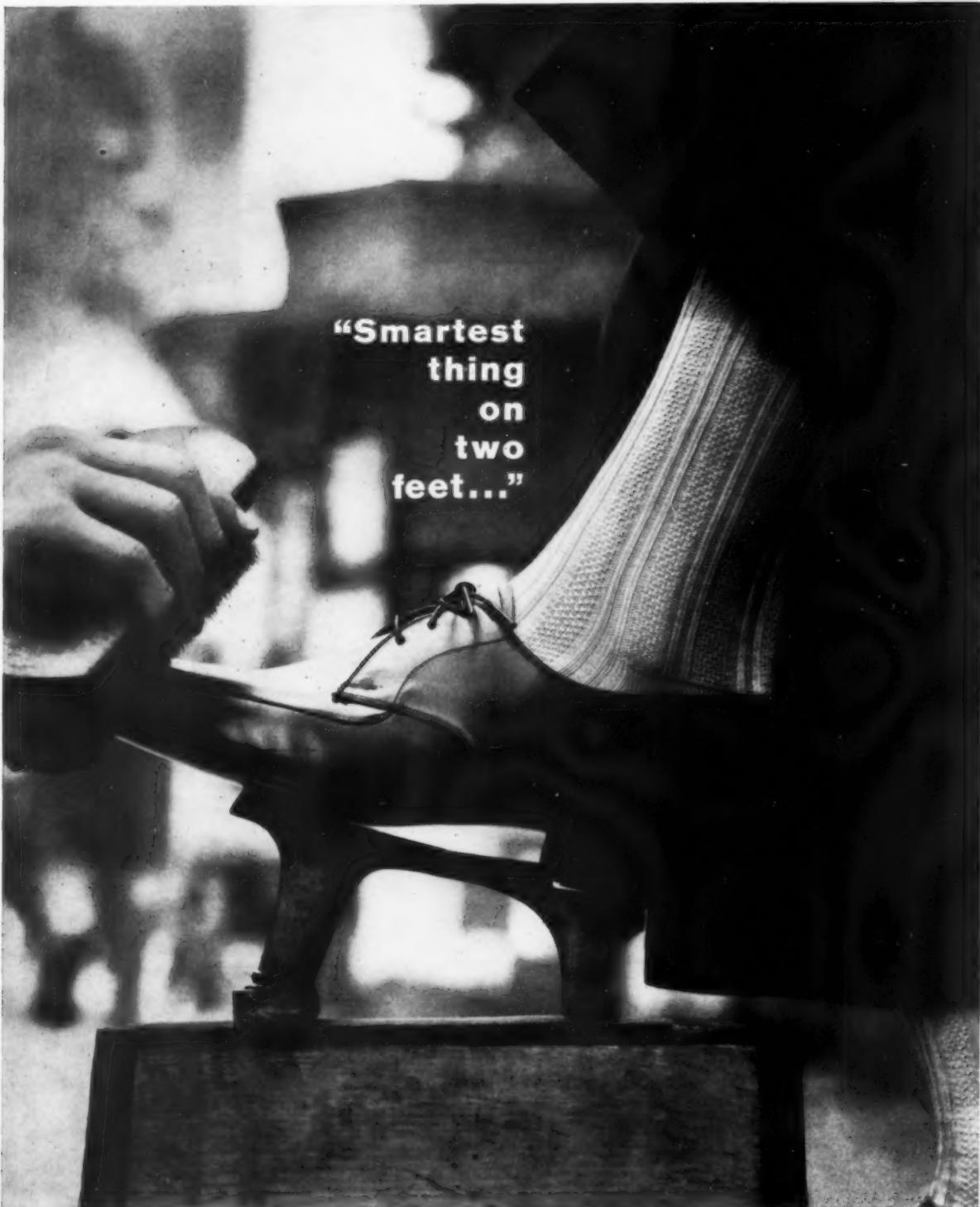
4. Ovals are knitted into a dolman sleeve bulky with eased jewel neck, rib trim.

5. Intricate Scandinavian pattern is topped by an oversize collar that converts from a turtleneck to a spread. Beret with pom pom has the same design.

6. The form of a diamond is interpreted in three ways on an extra long boatneck slip-on and its matching beret. Cuffs and hem are knitted in a two-color garter stitch.

7. A floral design rings the lower portion of a long length slip-on whose turtleneck is marked with narrow, contrasting stripes. Cuffs are also patterned.

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Knitwear From Abroad

Unusual Winter Knits Show Off-Beat Creative Influence



Artistic and elaborate hand embroidery simulates collar and placket on the V-neck, three-quarter sleeve jacket of an elegant two-piece suit by Marvienne.

Exaggeration is the keynote on this ski sweater knitted with a very soft wool yarn. Huge Pharaoh's collar, multi-color plaid and extra long length all add to the total effect.



Extra long cap finished off with pom pom is an integral part of nates at both ends in fringe; at this hip-length pullover. Pattern combines dark, medium and collar. Kajak's choice of dark light colors to their greatest advantage.

VIENNA, Austria — A recent preview of the winter collections of Vienna knitwear houses showed unmistakable signs of anarchic tendencies among designers against the dictates of fashion. Apparently, designers have become weary of "toeing the fashion line." Instead, they seem to have created off-beat models.

This nonconformity resulted in a refreshing variety of original knitwear, but the disadvantage is that it is more difficult to sum up the main fashion trends in a few words.

The only characteristic feature of the collections that could be seen was the predominance of some particular colors. They were muscat, bronze, gobelin blue and Bokhara red. Lightweight pull-overs and jackets were largely in solid colors. Favorite shades were green and brown.

There were designs so delicate that a multi-color garment looked solid when viewed from a distance. Others were blown-up, as if they were viewed through a looking glass. Scandinavian patterns that have made their rounds through the fashion world every few years, were again enjoying great popularity. Sportive models generally had a hand knit appearance.

The contours of the models were often accented by fancy edges, borders or fringes. Contrasting effects were achieved by the use of different material, color or pattern for collar and cuffs. Matching caps, capes, scarfs and belts opened up possibilities for variations.

For formal wear, designers resorted to intarsia, and embroidery. Marvienne again brought out models decorated with delicate embroidery that is so characteristic of the house. Hand embroidery on rustic pieces had become refined to a point that it looked like petit point. Novel effects in embroidery were achieved by the use of Lurex.

Kugler's knitted pants earned unanimous applause, as did Kajak's bulky knit pullovers. Other highlights of the preview were sweaters with attached scarfs, reversible ponchos, delicate jacquard models and the specialty of Geyer's, the simple rustic sweaters as they are worn by peasants in the Alps. The variety of the collections left hardly a wish unfulfilled.



This loosely fitting pullover terminates at both ends in fringe; at the hemline and the Pharaoh's collar. Kajak's choice of dark shades for the sweater gives the pattern a subtle cast.



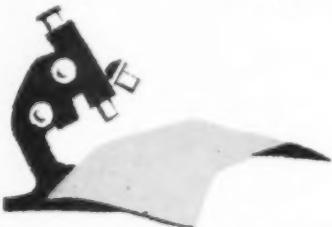
In knits from head to toe, this model is clothed in a bulky white sailor's cap and mittens, sweater-jacket, knickers and long socks. Scarf collar ends in a pom pom. Kugler.

Wetterfleck, literally weather patch, is one of many names designating a practical, protective garment worn by Spanish toreros, French flics, Swiss mailmen and Austrian gendarmerie. Here, Kugler interprets the wetterfleck in a reversible model.



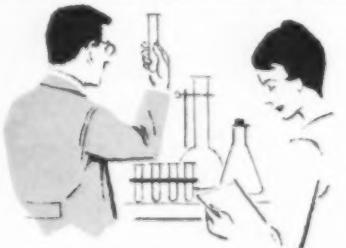
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Women's & Misses'

Darlene Promotes Double Knits And High Style Sweaters

A COLLECTION of wool flat and double knits adds impact to the new holiday line of Darlene Knitwear. Although this type of knit was offered by Darlene previously, for holiday and 1962 it is more numerous and more varied. Nine different slipon and cardigan tops all coordinate with a single slim skirt. Colors are varied and unusual details give each top a distinctive touch.

Several jackets have ribbed trims. On one, collar, placket and mock pocket are in the contrasting stitch and on another ribbing designs the front, collar tabs and tab trim at the waist. A cardigan with side closing effect has contrast edging around collar, cuffs and front placket.

Pullovers have full-fashioned conventional and raglan sleeves. Necklines include turtle, boat and mandarin and Italian type collars. Details are an edging in a simulated crochet stitch, a dart opening at the neckline with buttons and contrast piping at the hem. A scoop neck slipon has a diagonal mock cardigan front.

Blue is an important color at Darlene with shades running from pale to periwinkle; from aqua to navy. Shades of red,

pink, and green also come in for attention as do the neutrals including brown, beige, black and white. Maize, orange and gold are offered in new, bright shades.

Angora continues as a specialty fiber with this resource in fine and coarse gauges (24 and 9). Slipons are the more numerous group and reflect a number of novelty necklines. A scarf tie, details a scoop neck, a notched sailor collar has a self tie and a V-neck model has tapered ruching along its lower edge.

Cowl collars are still significant. One is notched and trimmed with buttons; a double cowl has four-button detail and a large cowl is diamond shaped and has a large button and tie trim. Others include a crushed cowl and a sleeveless sweater with straight hem and a small cowl neck.

One of the most popular numbers in this group is a hip length tunic which can be worn long or blouson depending on the use of a waistline tie.

Rib and fancy contrast stitching appear on a V-neck slipon, a scoop neck slipon, a sleeveless pullover with ribbed hem, collar and armhole and a three-quarter sleeve cardigan with large ribbed collar.

To be worn with Darlene's sleeveless slipon but sold separately is a Chanel-type cardigan with ribbing along collar and placket. Another highlight of the cardigan group has a double row of buttons and a convertible collar. Cardigans also have piping and unusual trims, novelty button details and other treatments for the sake of novelty.

Coarse gauge angora sweaters all coordinate with a full-fashioned angora skirt. Large, unusual collars on these angoras include a ribbed cape and a hood.

A nine gauge angora sleeve-

less style sparkles with Lurex. Classics in this gauge include a V-placket and collar style.

Among the specialty fibers group are the Minklam sweaters, composed of a lamb's wool, nylon and mink blend. Most in tune with new trends is the long-line pullover that reaches to a full 27 inches. Its self-belt can be worn or not.

Most Minklam sweaters are highly styled with great diversification. For example, sleeve lengths include a longer than usual cap and a roll up style. The former comes on a tie tunic with bateau neckline and button trim at the shoulder and could easily double for a blouse under a suit. The latter has a saddle shoulder and ribbed neckline.

Particular attention has been paid to necklines on these fine gauge fur blend sweaters. A scarf tie details a double breasted cardigan with self buttons as well as a pullover. An Italian collar comes on a slipon with a

(Continued on Page 24)



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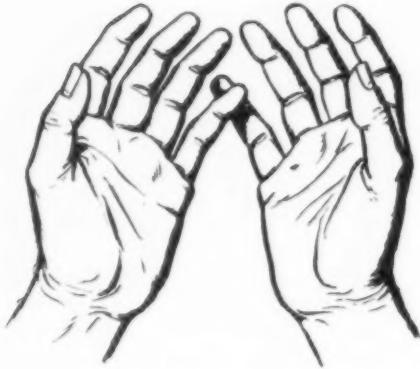
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placket front and on a cardigan with double rows of matching buttons. A scalloped collar and tassel detail a raglan sleeve slipon and a johnny collar and loop detail still another slipon. Also included are a shirt front cardigan with mandarin neckline and a slipon with shirt type closing and roll up sleeves.

Novelty necklines with a new twist are a ribbed turtleneck with buttons sewn onto the placket, a double cowl slipon with four-button detail and a standaway neck and ribbed placket on a raglan sleeve slipon. A pullover with raglan sleeves and bateau neckline has a side closing effect and a cardigan has a mock collar, two mock pockets and rib trim.

Herringbone braid is used to attractively trim many sweaters in the Minklam group. A full-fashioned Minklam skirt matches all sweaters.

Minklander sweaters, knitted with a three-ply yarn of the same composition as Minklam, are also offered in a number of classic and novelty styles.

Highlighted pullovers have a cowl collar and open knit around the waist and cuffs; a cowl collar and turtleneck insert and a V-neck with narrow cable stitch front. A star cardigan has a placket with ribbed edge around neckline and down the front and two pockets at the lower right side.

Other bulkies are knitted of wool, looped mohair and Orlon. Some have Lurex touches. In 100 per cent wool come shaker knit cardigans—one with a scalloped placket and collar; one with intricate fisherman trim on sleeves and pocket; another with lattice rib down the front and around the collar and another with a hood.

Also in 100 per cent wool is a bulky knitted in a somewhat open popcorn stitch. A zip front wool shaker cardigan has two-tone trim in front and ribbing details and a shaker knit has a crossover V-neck with novelty a zig zag stitch on V-neck and cuffs.

Additional wools are Shetland-type pullovers and cardigans and baby shakers in cardigans and a Chanel-type jacket.

Looped mohair construction is used on cardigans and pullovers with fancy trims and new collars. Lengths range from cropped to extra long.

Sleeveless Slipon Pleases Blairmoor

BOSTON, Mass. — Popularity of Chanel-type jackets and sleeveless shell slipons in the holiday and cruise markets augurs well for these styles during the 1962 spring season according to Ray Oppenheimer, New England representative for Blairmoor Knitwear. Citing four selections as outstandingly successful, he said he anticipates these to be included in spring offerings.

One coordinated set of two garments is made up of an all-over bubble stitch in Antron in solids of ivory, black, mauvette, tropic yellow, blue sky and orangeade shades. The sleeveless pullover is designed with a scoop neck and the jacket with a modified high-V close is trimmed with seven knit covered buttons. This same fabric pattern is also used for a waist-length jacket decorated with three matching frosted buttons about an inch and one-half in diameter.

A Chanel jacket, much favored in this area, is of Orlon and about the weight of a baby shaker. This is trimmed with embossed horizontal stripes about one-half inch wide in color extending completely around the garment. The same colors plus light gray are used for the stripes set about three inches apart on a white body. Horizontal ribbing is used on the border.

Among the holiday selections, a style likely to be repeated for spring is an Orlon-jeweled cardigan, full-fashioned and trimmed with nine pearl buttons. This is offered in white and black with elaborate embroidered designs in gold lace down either side of the front from which cut crystal amber beads are suspended.

Another set certain for spring promotion consists of a cardigan and a slipon of Enka nylon with an angora trim. The cardigan has eight covered and matching buttons and a fashioned collar edged with white angora on a body of lemon, nude, beige, stone green, peach, ice blue or black. The pullover has a square yoke about three inches deep which is also edged in white angora and is trimmed with a white bow. Both sweaters have three-quarter sleeves.

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Swimwear

Softened Silhouette Is Supreme At Rose Marie Reid

By ILANA HIRSCH

ROSE MARIE REID'S spring and cruise line of swim suits steers a middle course. The biggest silhouette trend is the return to a more conservative look — covered up and softened. Backs are a bit higher; some have zipper closures. Softness is incorporated via shirring, draping and blouson fullness. This is not to say that bare back, fitted suits have been tossed out the window. They remain an integral and important part of the line, but the softened silhouette is supreme. It is also easier for most women to wear.

Spandex fibers are emphasized for their lightweight, easy care properties and also their good looks. Lycra satin and Vyrene velvet are two new treatments. This year, Rose Marie Reid has enlarged its group of Lycra suits that are transparent in the hand but opaque when worn. They are colored in a vivid array of prints as are suits in other fabrics and constructions including elasticized faille and angleskin, cotton and Dacron and cotton.

Knitted suits come in a vast array of styles — both relaxed and fitted. Fibers are Antron nylon, Helanca processed nylon, Orlon and a Tycora and Vyrene blend.

Story in Stripes

Clever use of stripes relate several Helanca knits to each



Soft draping to create a flattering bustline and gathers above and below an elasticized waist characterize Rose Marie Reid's softened sheath patterned in a floral border print.

other although silhouettes and stripes vary. On one maillot, reverse stripes in two colors change sizes in proportion as they near the extremities of a suit. On another, a striped midriff stands atop solid trunks and on a two-piece tunic suit, narrow stripes the color of the trunks, design the tunic across the bodice and at the lower edge.

On all these suits, white is used with a color — orange, navy, brown, black, red, green and yellow. Red is also used with black.

Relaxed Knits

Knits often reflect the relaxed, softened silhouette. Examples are a scoop neck maillot knitted of Antron nylon with blouson styling and a surplice maillot. The former comes in magenta, royal, chocolate brown and gray and its back is closed with a zipper. The surplice maillot comes in both Helanca and the Tycora and Vyrene blend. This bias approach — a new silhouette for knits — marks many suits in the line. The Helanca suit comes in solids of teal, brown, and orange; the blend in a floral print.

Swim suits made of woven fabrics show the relaxed look in a number of ways. The mermaid maillot and the softened sheath are the two basic silhouettes. A slightly higher leg cut characterizes the mermaid maillot as does subtle shirring around the hips, bustline and along the zipper which closes a back that takes a conservative plunge.

The softened sheath has straps which are an extension of the bodice fabric which gracefully drapes into position and is not held by darts or tucks. A belted, buckled, tied or cummerbund waistline creates fullness above and below in front. Both suits come in a number of fabrics but lightweights, especially Lycra satin and Vyrene velvet are emphasized.

A surplice sheath is another style intended for a somewhat

relaxed and graceful bustline.

All styles come in solids and several prints. There are water color, abstract, geometric, floral, border and linear prints and stripes — primarily verticals. Every color is represented and their combinations are both classic and unusual.

Shades of red, green and blue are combined in a stripe; hot clear pastels in an abstract; orange, brown, green, and lime in a linear print and hot colors in vari-sized stripes.

The last two prints come on cotton coordinates which consist of two-piece boy short and sheath suits, beach dress, skirt and jacket.

Woven elasticized suits in several silhouettes are a foundation of this collection. In sharkskin are a cummerbund sheath, a classic low back sheath, a striped low waisted sheath with bow detail and a diagonal mitred stripe sheath.

Bengaline suits are a circle printed sheath, a solid with fagoting between tone on tone bands outlining the V-neck and V-back, a circle abstract in a wild conglomeration of colors and a floral print.

Also in this group is a border print satin Lastex-content, a draped boy leg and two dressier numbers: a silk shantung with soft tucking at the bustline and a woven jacquard in dull and shiny gold thread.

Ensembled Cottons

Cottons remain constant in this line. They come in flat and several pique weaves; the former primarily in solids — the latter in vivid prints. Motifs include a floral overprint, pastel stripes, on white and a pastel, multi-color floral. Silhouettes in cotton are a tunic suit with side slits, a draped sheath with elasticized side panels, two-piece styles — some of which have adjustable waistlines, boy short and skirted suits — the most unusual of which is a straight chemise that reaches to a pleated skirt. Another has a gathered skirt of Antron tricot. Most cottons are ensembled with jackets, skirts or beach dresses.

A special group of junior suits

are included in the line. Many appear similar to regular numbers but most are distinctly youthful.

Silhouettes are one- and two-piece boy legs, sheaths and maillots. There is also a tunic and several skirted numbers. One unusual style is a boy leg with blouson bodice.

Bodices are both fitted and blouson. Fabrics are solid and patterned in a shadow plaid, gingham checks, stripes, polka dots and many prints.

Highlights of the junior line are two two-piece suits: a boy leg ensembled with a jacket and kerchief and a knitted maillot with a woven, collarless jacket.

Best knits are an Orlon pebble construction, a one-piece with cutouts for a two-piece look, and a solid color knit with an elongated middle front panel bisected by a solid belt. The one and only novelty suit has a striped tank top and solid color Jamaica shorts.

Lycra and Vyrene are also available for juniors in printed sheaths and maillots.



Rose Marie Reid's new softened sheath silhouette in solid color Vyrene has an elasticized waistline bowed in the center. It comes in cyclamen, Bali blue, green almond and mandarin.

Knit Yardgoods

Milliken Woolens Names E. Eliot Miller Manager

Milliken Woolens, Inc., has appointed E. Eliot Miller to the newly-created position of general manager of the knitted fabric division as part of a realignment of personnel.

He was previously market manager of light apparel carded cottons for Deering Milliken. Sylvester P. Larkin, sales manager of the Belfast division, is taking over Mr. Miller's old position.

John Chambers continues as merchandise manager of the women's wear double knit program.

The realignment also is taking place at Deering Milliken.

Allen Knitting Mills Did Well At NOSA Show

Allen Knitting Mills has reported that its exhibit at the National Outerwear & Sports-wear Association Show was heavily attended by out-of-town manufacturers.

The company previewed its woven laminated novelty fab-



E. ELIOT MILLER



JOHN CHAMBERS



NANCY KALAYJIAN

ries which it expects will open up an entirely new field for fabrics of this type in the rainwear, men's jacket, children's coat and ladies' topper industries.

The company also introduced printed foam, using a wide variety of colors and designs, which makes this new line ideal as a self-liner for garments made of laminated foam fabrics, whereby the outer side of the laminated fabric is the outer portion of the piece of apparel, and the inner side is the liner.

Allen's crepe stitch Acrlan laminated jersey fabric also created a great deal of interest among women's coat manufacturers, and there was even sampling done by manufacturers of hats, caps, boots and shoes of laminated fabrics.

Malden Mills Appoints R & D Sales Manager

James Valles has joined Malden Sales Company as sales manager of the research and development division.

Nancy Kalayjian, Fabric Designer For Algro

Nancy Kalayjian has joined Algro Knitting Mills as a stylist, designer and colorist for all lines of knitted fabric.

Algro is a major producer of circular jersey and rib knitted yardgoods.

She had been with Alamac Knitting Mills, Indian Orchard, Mass., since 1952 in a similar capacity.

Stickley's Ditties

*As I wandered o'er the meadow
'Neath cloudless sky of blue,
I came across a flock of sheep
By clear, cold waters blue.
"Prithee, tell me gentle beasties
With the proud and noble
mien,
Lambs that bear themselves
like princes*

*Ewes with bearing of a
queen—
What dreams and hopes are
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Mill News**Munsingwear Names Five To New Posts**

MINNEAPOLIS, Minn. — James F. O'Crowley, Jr., was elected secretary-treasurer of Munsingwear, Inc. He will continue as controller, a position he has held since joining the company in 1958.

The firm also announced the appointment of Laurens D. Dawes, executive vice president and formerly head of the Hollywood Vassarette division, as head of the men's products division.

Aldrich Named

C. Morgan Aldrich, Jr., vice president and formerly general manager of the men's product division, was named general manager of the women's product division.

A. Byron Reed, vice president and formerly general manager of the women's product division, was named general manager of the Hollywood Vassarette division.

Alden M. Hanson, budget director for the past two and one-half years, was named an assistant secretary.

Edgeworth Knitting Mills Names Anthony DiPaola

Anthony DiPaola, formerly of Marlboro Shirt Company, has been appointed executive vice president of Edgeworth Knitting Mills.

He will make his headquarters in the Empire State Building.



ANTHONY DiPAOLA

Jerry Pollak Named Manager Of Darmen

Jerry Pollak has been appointed manager of the Darmen of New Hampshire sweater and shirt division of M.K.M. Knitting Mills, Inc.

Mr. Pollak came to Darmen from Gordon & Ferguson, Inc., St. Paul, Minn., where he was in charge of sales for New York.

Straus Knitting Mills Announces Sales Agents

ST. PAUL, Minn. — Straus Knitting Mills, Inc., has announced the following list of sales representatives:

Fred Schultze and Don Adams, Portland, Ore.; Samuel M. Marcus, St. Louis; Ben Freed, Winnipeg, Manitoba, Canada; Earl M. Savitt, Los Angeles; George M. Vaughan, Decatur, Ga.; Walter Zurne, Chicago, and Sidney Marks, New York City.

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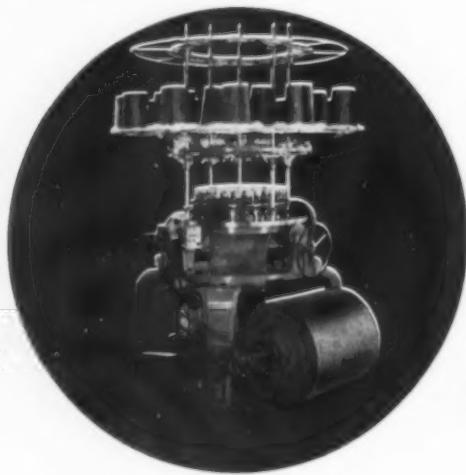
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Divisional Offices: High Point, N. C., Rossville, Ga.

Mill News**Bailey Knitting Mills
Family Operation**

(Continued from Page 5)

Sometimes it serves to stir up a covey of last call orders. Often a tone that has been stocked year after year with only a modest demand will suddenly come to life. This was true of pumpkin which came into popular demand two years ago and claret which came to the front this year and is producing triple re-orders.

The mill occupies about 3,500 square feet on two floors of a building in the rear of a Needham Heights residential area, which it shares with another manufacturer. The knitting room on the first floor is devoted to the automatic machinery, raw stock and a ten spindle winder.

The firm uses Robinizynski and Dubied, flat bed, links and links equipment, three automatic and four hand operated. The first floor also is used for a sewing room, office and for finished goods stock and shipping. Wound yarn is stored on the second floor where the hand oper-

ated machines are located and where the looping is carried out. Shipping containers and packaging stores are also stocked on the second floor.

Packaging is in single boxes and boxes telescoped to accommodate four or six. Some 50 or 60 customers' labels are kept on file and are stitched on each garment in place of the Bailey label when stores desire to promote their own trade name. Orders average about 50 or 60 units but range up to 300 units occasionally.

Plain bodies are knit on the automatic equipment, three to a machine simultaneously. Hand equipment is used for the cabled styles and for the ribbed crew necks which are sewed by hand after sleeves have been looped on.

On cardigans a contrasting stitch is set to mark a cutting guide down the center of the garment. The cut is made in the sewing room and edged on a Merrow machine. Normally the ribbon binding is applied on the front only but a wall chart is used to indicate production for which front and back binding has been specified.

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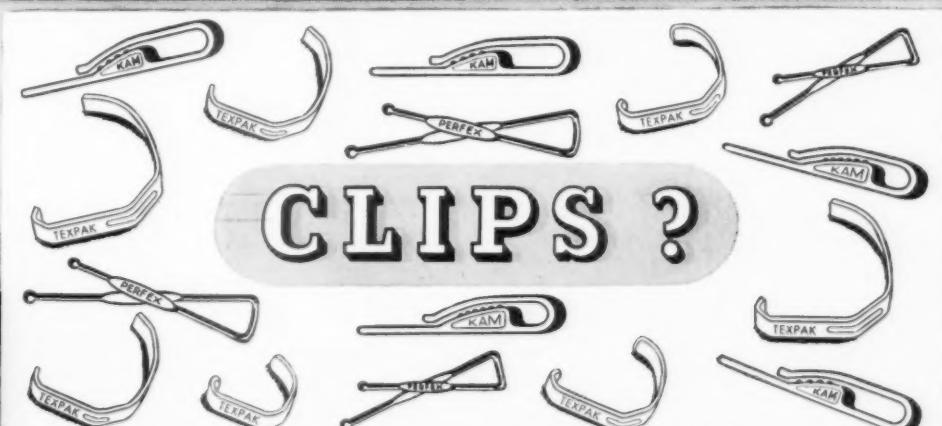
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A SPECIALIZED BUSINESS WITH SPECIAL SERVICE

Obituaries**Ivan W. Reed, 68; Head Of Union Knitting Mills**

POTTSVILLE, Pa. — Ivan W. Reed, 68, president of the Union Knitting Mills in Schuylkill Haven, died in Pottsville Hospital on Nov. 13.

He also was president of the Schuylkill Haven Trust Co., treasurer of the Schuylkill Haven Casket Co., and director of the Schuylkill Building and Loan Assn.

Jacob Greenwald, Head Of Knitwear Firm, 76

PHILADELPHIA, Pa.—Funeral services for Jacob Greenwald, former head of the old J. Greenwald Co., manufacturers of children's knitwear, were held November 14. He was 76.

District Association**PEKOMA To Conduct Management Seminars**

PHILADELPHIA, Pa.—The Knitted Outerwear Manufacturers Association, Pennsylvania District, will conduct a series of management seminars beginning November 29 at the

Philadelphia College of Textiles and Science.

The courses, planned for every other Wednesday evening, will be supplemented with instructions from experts specializing in the needle trade industry.

The 13-session program has been organized by an instructional committee comprising Dr. Edward B. Shils, executive secretary of KOMA; Dr. Robert P. Brecht, professor of industry, University of Pennsylvania and arbitrator for industry; Dr. William Gomberg, professor of industry, University of Pennsylvania; Bernard Kaufman, management consultant with Clearfield Mills; Aaron Maimin, David Maimin & Co., and Morton Kaplan, general manager of Daroff & Sons, Inc.

Yarn Suppliers**Mac Heymann To Sell Roselon Yarns In N.Y.C.**

Mac Heymann Yarn Co., Inc., 225 West 34th Street, has become an agent in the metropolitan area for Roselon Yarns, Inc., of Philadelphia, producer of Ban-Lon and Antron.

Mac Heymann also supplies Turbo Orlon and worsted.

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ORLON*, WORSTED, NYLON, DYNEL,
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New York, N. Y.—Kramer & Wolf, Inc.—Murray Hill 4-2893

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63" Needle Beds also available

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**SERVICE AND PARTS
FOR NEW MODELS
AND ALL MACHINES
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Synthetic Fibers**Rayonier Head Named Delegate**

Russell F. Erickson, president of Rayonier, Inc., has been named to the United States National Committee for the Second World Congress of Man-Made Fibers, which will meet May 1-4 in London.

Mr. Erickson is the 24th United States delegate named. The Congress will cover applied research, development, economics and distribution and the impact of man-made fibers on clothing, home and public services and other industries, according to Royston Dunford, secretary of the United States National Committee.

Over 2,000 delegates from 50 countries will attend the World Congress at Albert Hall, representing the textile industries, allied trades and inter-governmental organizations of their respective countries.

Celanese Names Heads Of Marketing Relations

Harold A. Blancke, Jr. and J. A. Plant have been appointed managers of mill marketing relations for Celanese Fibers Company, a division of Celanese Corporation of America.

Mr. Blancke, formerly district sales manager for Celanese fibers at Charlotte, N. C., will be manager of greige mill marketing relations. Mr. Plant, who joined Celanese in 1960 as a senior account representative of the mill marketing department in New York City, will be manager of integrated mill marketing relations.

They will work out of the New York City office, supervising mill customer coverage and co-ordinating mill marketing activities with all departments of Celanese sales and merchandising. They will report to Thomas B. Congdon, director of mill marketing in the area.

Argentine Firm Named DuPont Sales Agent

BUENOS AIRES, Argentina — Du Pont de Nemours Argentina S.A.C.I., a wholly owned subsidiary of E. I. du Pont de Nemours & Company of Wilmington, Del., will be the Argentine sales representative for Du

Pont textile fibers, except nylon and petroleum chemicals.

Nylon sales will continue to be handled by Ducilo S.A.I.C., an Argentine manufacturing affiliate of the DuPont Company.

Du Pont de Nemours Argentina S.A.I.C., will also provide technical assistance to the distributors of Du Pont products in Argentina, Chile, Paraguay, and Uruguay.

Drive Continues Against Coop Ads

(Continued from Page 1) vendors that whether they donated or not, their decision would not affect future business. The trial examiner acknowledged that because of the nature of the resources' relationship with Macy's, the seller was always seeking to maintain the goodwill of Macy buyers, and Macy buyers knew this. But, the examiner concluded, this was not sufficient to impute to Macy's the knowledge that they were forcing a choice on the vendors or that vendors generally so believed. There was evidence that some vendors actually contributed out of this fear. But the examiner said that nothing Macy's did was in itself oppression of the degree which the law will condemn as unfair.

"It is noteworthy," said Mr. Korzenik, "that the complaint was dismissed without prejudice to the right of the Commission to institute further proceedings should further circumstances so warrant. Hence, even if this decision should be affirmed on appeal we think it unlikely that it will constitute a useful precedent either for Macy's to repeat the same practice or for other stores to follow in its traces.

"You will see from all this that contributions to advertising and store catalogs are in no way affected. Also, remember, the Federal Trade Commission is still working on the mandatory inquiry directed to resident buying offices and the largest retailers of the country to determine what special and discriminatory concessions they have demanded or obtained from resources in the ready-to-wear field. This will be a potent deterrent against retailers' demands for contributions to advertising."

TURBO ORLON® ACRYLIC YARN

SKEIN DYED . . . and Wound On To Cones

. . . Also Natural!

Delaine WORSTED MILLS, INC.

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THERE IS NO
SWEATER WASTE TIME-MONEY
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47 Rodney St., B'klyn 11, N. Y.
24 Hour Service Within 100 Miles of N.Y.C.
We Do Business Throughout the World

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for the

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NORTHERN YARN MILLS

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Single and 2-ply — dyed yarn on cones — for prompt delivery

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Knitted Outerwear Times

**the official publication of the
national knitted outerwear association**
386 park avenue south, new york 16, new york
murray hill 3-7520

sweaters • swim suits • infantswear • knit fabrics • polo shirts • gloves • headwear

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**Stores Urged
To Extend Season**

Retailers should hold off clearances of women's swimwear at least until August 1, the ready-to-wear group of the National Retail Merchants Association suggests.

Charles Himelech, vice president of Himelech's, Detroit, and chairman of the group, said, "The National Ready-to-Wear Association is urging retailers to prolong the swim season—in their own interest."

"I find it difficult to understand why some stores persist in clearing their stocks so early that not only is there no possible profit in it, but also, but the customer, when she really wants to buy, can't get what she wants," Mr. Himelech added.

He called upon the stores to take action: "On the other hand, in a community like ours, it is also logical action won't do it."

"It's our feeling that clearances shouldn't be until August 1st, but there may be local situations which could even later timing. But at least we should be intelligently guided in this, of course," observed Mr. Himelech.

From the customer's point of view, let no one say that for once she'd be able to buy the size and color and style she wants when she wants it—she buys closer to her need, remember—that has generally been the case in the past."

**Knitwear Firms To Meet
Feb. 15 In Charlotte, N. C.**

Members of the National Knitted Outerwear Association in the South will meet 4 P.M. Wednesday, February 15 at the Barringer Hotel, Charlotte, N. C., it was announced by Sidney S. Korzenik, executive director and counsel.

It will be an informal session and will be a discussion of the problems of the knit apparel industry. Charles Reichman, editor of the KNITTED OUTERWEAR TIMES, will speak on recent developments in circular knitting.

**the most
respected
trade paper
in the knitwear
industry**

**Korzenik Presents Import Analysis
To Pastore Committee Hearings**

WASHINGTON, D. C.—The mounting threat of foreign imports to the domestic apparel field was the chief subject of presentation by the various affected industries at the hearing of the Senate Pastore Committee on Monday and Tuesday, February 6 and 7 for a further consideration of the problems of this area of the industry.

Sidney S. Korzenik, executive director and counsel of the National Knitted Outerwear Association, presented the committee with an analysis of the impact of foreign-made knit goods on the domestic market. He also presented a general statement in behalf of the apparel industries, asking the committee to consider the possibility of a moratorium on imports of foreign apparel to the industry to avoid a study of the problems of the apparel manufacturing which constitutes the chief contribution of domestic textiles.

The Pastore Committee is a subcommittee of the Senate Committee on Small Business. It was originally constituted in 1958 to make a study of the troubles in the textile industry. In the report it published as a result of its first hearings it stressed the effects of foreign imports, took a sympathetic attitude toward the possibility of quantitative restrictions, recommended the establishment of an inter-agency committee on textiles and arranged for certain special research studies to be prosecuted on this subject. The inter-agency committee that was later established in consequence of the first Pastore report reached the conclusions that were opposed to any action with respect to foreign competition outside of the avenues of relief, limited as they are, provided under the Reciprocity Trade Agreement Act. The inter-agency committee report was found highly disappointing in the textile industry.

The reconvening of the Pastore Committee is intended, therefore, to bring its study up to date with view toward possibly making new recommendations.

Textile and apparel interests as well as labor unions presented their viewpoints to the committee which Senator Pastore, Democrat of Rhode Island, heads. Attention was primarily focused on the injury suffered as a result of foreign imports, particularly from Japan.

"As the knitted outerwear industry has come to occupy a substantial part of the domestic market and have been hurtful to the knitted outerwear industry and to related segments of the economy," Mr. Korzenik said.

"In consequence of this advantage, low-priced imports from low-wage countries proved detrimental not only to the United States industry, but have displaced other Western allies from their position in the American market."

"Export quotas announced by Japan have been illusory, misleading and unless bilaterally negotiated and agreed

(Continued on Page 37)

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be self-evident... call or write...**

Knitted Outerwear Times

386 PARK AVENUE SOUTH • NEW YORK 16, N. Y.

MURRAY HILL 3-7520

Warp Knitting At Manchester

(Continued from Page 9)

have managed to load the mesh ground with design elements, lifted off Leavers lace hoping it would look like the real thing. At this rate it will be some time yet until proper use is made of the patterning scope dormant in 24 bar machines.

2. Four bar, 48 gauge power net machine, 100 inches wide. It ran at around 720 courses per minute knitting 60 denier nylon and elastic yarn. This was the first Raschel machine to be equipped with eccentric drive. In comparison to previous models it features guide bar hangers working in ball slides just as on the new Super Rapid tricot. Also, the solid trick-plate has been replaced with trick sections which may be replaced in case of damage.

3. A 12 guide bar, 36 gauge curtain lace machine, 124 inches wide. It ran a combination of 75 and 50 denier polyester yarn on marquisette type curtain fabric at around 400 courses per minute. The machine has three fully leaded guide bars for knitting of the marquisette ground and nine spot guide bars for patterning. Yarn is supplied to these bars from a 128-end creel located behind the machine. The ground bars are operated from regular pattern wheels or chain drum. The pattern bars have a special chain drum using one link per course. Traverse up to 50 needles is possible. The machine has a conventional cam/countercam drive.

Hobley also showed a curtain lace Raschel with 14 guide bars. The exhibition machine was of narrow width suitable for production of single panel of Brise-bisset type marquisette curtain. Three fully leaded guide bars are used for knitting of the ground while 11 spot bars make the pattern effects with threads supplied from a creel. Regular cam/countercam system provides movement to all knitting element bars. The builders claim speed range of 280/320 for the machine.

Another machine exhibited by Hobley was a 4-bar, 36 gauge Raschel knitting a lightweight fishing net out of 210

denier nylon (unthrown). The machine ran at about 525 courses per minute, but it was claimed speeds up to 650 courses per minute were practical.

Raschel fishing nets now enjoy an unprecedented boom in Europe. They have captured most of the markets traditionally held by the knotted products. The warp knit nets are stronger, cheaper, easier to pack and offer less resistance when trawled. They require no maintenance. Light load nets are made on 4-bars utilizing 210 denier nylon. Heavy duty nets are knit on 8 bars with 840 denier material.

The Hobley net machine had the beams positively driven from an electric let-off. Tensiometers were fitted in the center of the warp sheets to give a running verification of tension. Cam/countercam system was used for all motions. A noteworthy feature of the guide bars were the guide units cast of nylon. This is yet another attempt to substitute lead alloy with a lightweight plastic. All previous attempts to use Bakelite, nylon or other synthetics for casting of tricot, guides or needles proved unsuccessful owing to dimensional instability of these materials. Nylon, for example, will swell to a different extent with variations in temperature and relative humidity and throw the machine off gauge. For a 36 gauge Raschel, however, the expansion of nylon is not too critical and it may be safely used, providing it is capable of withstanding the sustained strains imposed on the guide blades in the course of manipulating heavily tensioned warp ends.

Barfuss exhibited a 24-bar lace Raschel Model HR 24, 120 inches wide, 36 gauge. It ran a complex lace pattern utilizing two ground mesh bars and 18 pattern bars. The machine is well designed and operated at a high speed without undue noise or vibration.

Particularly impressive are the simple, yet effective spot guide mountings which permit their withdrawal or repositioning without the need to pull out the entire bar.

Crochet Equipment — Two
(Continued on Page 34)

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40/3 Sewing Thread...
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crochet machines were exhibited, one by Kohler, the other by Rimoldi. The Kohler machine, Type OE/10 ran a 9-bar nylon lace at 240 courses per minute. It had a 40 inch needle bar and 18 needles per inch. There were 10 weft inlay rods operated from a Raschel type link and chaindrum mechanism.

The machine featured a "camless" needle bar drive which the makers claimed was a significant improvement over the previous models and contributes a 50 per cent increase in speed. The reciprocating movement of the needle bar is now developed from a planetary gear arrangement. It is hard to understand why in quest for higher speeds the designers found it necessary to abandon cams in favor of complex and potentially troublesome geared devices.

On tricot machines where needle bar movement is certainly more difficult than on crochet, cams proved efficient up to 700 courses per minute.

Another strange aspect of Kohler machine promotion is the stress given on the possibility of knitting nylon lace trims usable in unfinished form for direct application to garments. It should be easy to visualize the distortion and curling of the lace occurring once the garment is washed. Just how Kohler proposes to scour, dye, resin impregnate and set the nylon trims in individual width remains a matter of conjecture. It is obvious to the author that laces, bands, insertions, etc. in nylon can only be processed when knit in web form and subsequently separated with the aid of drawthreads.

Except for very small orders, the Raschel machine is much better suited to knit nylon lace trims and can outproduce many fold any crochet unit. Builders and operators of crochet equipment will do well to leave the area of nylon lace to Raschels and concentrate instead on classes of work where they can capitalize on the many attachments and knitting techniques not readily practical on Raschel machines, such as multi-color fringe device, ribbon threading apparatus, picot edging, long weft inlay, etc.

Rimoldi exhibited the Comez crochet machine running at around 200 courses per minute

on a variety of narrow bands including elastic. The yarns were drawn off cones mounted on a small creel standing behind the machine. An electric stop motion was fitted with dropper wires placed on each thread. The elastic yarns were furnished to the needles from rubber fed rolls turned by a pawl and ratchet drive. There were six weft bars operated from a chaindrum utilizing one link per course.

Of interest was the needle bar drive consisting of contour cams and their followers fixed to horizontal plungers actuating the bar. The whole system worked in oil bath with very little noise. The Comez is available in two widths—23.5 inches and 31.5 inches, and gauges 12-15 needles per inch. The builders claim the machine is capable of turning out 110 linear yards of lace per eight hour shift.

Warpers—There was quite a crop of warping equipment of direct, indirect and spot beam type at the show. Direct warpers were exhibited by Crowther, Liba and Mayer. The Liba unit, Mammut, looked very impressive but perhaps a little over-engineered with all the gear and mechanism on it. The warper can accommodate one beam up to 50 inches in width and 30 inches in diameter or two 21 inch wide beams. Speeds up to 880 yards per minute are claimed, for whatever such claims are worth. It should be realized, that warping speeds are a function of yarn properties and the ability of the tension devices to provide effective control over the filament bundle.

Mayer showed a brand new Model SG 61 direct warper of a clean and simple design. A small crane fixed above the warper is used for lifting the beams. The yarn elevator was of particularly attractive construction. The disposition of rollers affords an excellent view of the warp sheet for purposes of inspection.

Fletcher Bros. displayed an indirect traverse warping mill capable of winding up to 30,000 yards of 15 denier nylon. This is no small feat considering the tremendous constrictive force exerted by nylon on the mill beams.

WILL EQUIP
V
3

Post C

1—Br
1—Su
1—Su
3—Pl
2—Phila
2—Phila
6—Phila
4—Phila
1—Phila
1—OG, R
1—O
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54-46

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1—60" Stoll, model JBOMB, 10 cut, with 2 speed motors.
Will exchange for 12 cut, same model.

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19 or 19½ cut, 30" or 33" Philip or
Scott & Williams interlock machine.
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PRICED TO SELL

1—52 Reece and table
1—Steam Table, 24" x 48", with Efficiency Device
1—8 point Sotco, 1—10 point "P" looper
For all knitting mill needs . . . CALL

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2—Jacquard TA-12, 30", 10½ cut
1—Jacquard TA-12, 30", 11 cut
2—Jacquard TAI, 16 and 16½ cut
1—Jacquard TAI, 13½ cut, stripers
20—Stoll JBO, hand flat machines, 5-12 cut
1—Supreme BRW, 30", 4 cut, 16 feed
5—Universal Supramat, 63", 4 cut
5—14 point Sotco "P" loopers
1—Queens, 12 cut, 60", Model B
5—Morat, 16 cut
2—Universal 6 spindle backwinder
7—Lamb, Dubied, Grosser machines, 5-14 cut
5—Brinton revolving take-up, 24", 18 cut, 64 feed

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on 7 gauge flat Links and circulars for bulky girls' sweaters.

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Experienced circular machines.

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Experienced on knit goods.

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Long established Pennsylvania mill wants a leading man to run cutting, sewing and pressing department for a men's and boys' knit shirt program.

All replies confidential.

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Free lance or studio work.

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Over 20 years experience in all phases of men's, ladies' and boys' sweaters and sportswear. Can take care of production after knitting to finished product. Will relocate.

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Knitter-Mechanic with experience on Scott & Williams available. Box 496AA

Wanted—Men's, boys', ladies' and children's sweaters. Box 497BB

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